

Task Index

Task Index

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Managing the System

The following groups of commands are important for managing various aspects of the system.

Installing and Maintaining Programs

| | | |
|-----------------|------|---|
| cvid | 272 | Creates a VRM install diskette for backup purposes. |
| install | 524 | Installs a command. |
| installp | 529 | Installs a licensed program. |
| make | 625 | Maintains up-to-date versions of programs. |
| mdrc | 640 | Allows you to reinstall a user-created minidisk after you have reinstalled AIX. |
| ndtable | 685 | Accesses the Distributed Services Node Table. |
| pwttable | 801 | Accesses the Distributed Services Node Security Table. |
| updatep | 1122 | Updates one or more programs. |

Configuring the System

| | | |
|------------------|-----|---|
| bffcreate | 108 | Creates files in backup format for complete or subset programs in a code service environment. |
| biodd_cfg | 115 | Configures the block I/O AIX device driver. |
| chkcomp | 158 | Checks compatibility between a code server and an active-service client. |
| chgstate | 164 | Changes the state of a code service client to either active-service or stand-alone. |
| chparm | 171 | Changes or examines system parameters. |
| config | 194 | Extracts configuration information from configuration files. |
| devices | 315 | Adds, deletes, changes, and displays device information. |
| defkey | 306 | Defines keyboard key assignments. |
| display | 332 | Selects the physical display that an existing or new virtual terminal uses and sets colors and fonts. |
| dsipc | 354 | Installs the Interprocess Communication key mapping in the kernel. |
| dsldxprof | 355 | Loads translate information into the UID/GID translate profiles. |
| dsxlate | 363 | Installs Distributed Services UID/GID translate tables into the kernel. |
| env | 393 | Sets the environment for execution of a command. |
| getty | 490 | Sets the characteristics of ports. |
| init | 521 | Initializes the system. |
| ipctable | 544 | Creates, displays, or changes the Distributed Services IPC Queues Table. |
| keyboard | 551 | Controls the delay and repetition rates of the keyboard. |
| locator | 583 | Controls the sample rate of the locator. |
| minidisks | 650 | Adds, deletes, changes, and displays minidisks. |

| | | |
|------------------|------|---|
| mknod | 661 | Creates a special file. |
| pdisable, | 741 | Kills the logger running on the specified port. |
| phold | | |
| pstart, | 791 | Enables or reports the availability of login ports. |
| penable, | | |
| pshare, | | |
| pdelay | | |
| rc | 806 | Performs normal startup initialization. |
| setdma | 910 | Sets the DMA channel of the specified adapter. |
| sound | 967 | Controls the volume and click of the keyboard speaker. |
| splp | 975 | Changes or displays printer driver settings. |
| stty | 1018 | Sets, resets, or reports work station operating parameters. |
| termdef | 1062 | Queries terminal characteristics. |
| trdiag | 1097 | Starts diagnostics on the Token-Ring Network. |
| ugtable | 1109 | Creates, displays, and changes the Distributed Services Network Users/Groups Table. |
| users, | 1129 | Adds, deletes, and changes user and group information. |
| adduser | | |
| varyon | 1180 | Makes an external disk drive and any minidisks or file systems defined on it available for use. |
| varyoff | 1177 | Removes an external disk drive from the operating system configuration. |
| verify | 1186 | Turns write verification on or off for a particular minidisk. |
| vrnconfig | 1206 | Installs peripheral devices. |

Backing Up and Restoring System Files

| | | |
|----------------|------|---|
| backup | 88 | Backs up files. |
| pack | 730 | Compresses files. |
| restore | 826 | Copies back files created by the backup command. |
| tapechk | 1047 | Performs consistency checking of the streaming tape device. |
| tar | 1048 | Manipulates archives. |
| tctl | 1058 | Gives commands to streaming tape. |

Managing File Systems

| | | |
|-----------------|-----|---|
| basename | 95 | Returns the base name of a string parameter. |
| chroot | 172 | Changes the root directory of a command. |
| clri | 175 | Clears the specified i-node. |
| cpio | 205 | Copies files into and out of archive storage and directories. |
| crash | 215 | Examines system images. |

| | | |
|----------------------------------|------|---|
| dcopy | 299 | Copies file systems for the best access time. |
| devnm | 316 | Names a device. |
| df | 318 | Reports number of available disk blocks. |
| env | 393 | Sets the environment for execution of a command. |
| ff | 417 | Lists the file names and statistics for a file system. |
| fsck | 445 | Checks file system consistency and interactively repairs the file system. |
| fsdb | 450 | Debugs file systems. |
| istat | 545 | Examines i-nodes. |
| link | 575 | Performs a link or unlink system call. |
| mkfs | 658 | Makes a file system. |
| mknod | 661 | Creates a special file. |
| mount | 669 | Makes a file system available for use. |
| ncheck | 683 | Generates path names from i-numbers. |
| proto | 780 | Constructs a prototype file for a file system. |
| setmnt | 911 | Creates mount table. |
| skulker | 951 | Cleans up file systems by removing unwanted files. |
| sync | 1030 | Updates the superblock and writes buffered files to the fixed disk. |
| umount, unmount | 1112 | Unmounts a previously mounted file system, directory, or file. |
| varyon | 1180 | Makes an external disk drive and any minidisks or file systems defined on it available for use. |
| varyoff | 1177 | Removes an external disk drive from the operating system configuration. |

Analyzing System Activity

| | | |
|------------------|------|--|
| du | 364 | Summarizes disk usage. |
| dumpfmt | 368 | Formats the VRM dump file. |
| errdead | 397 | Extracts error records from dump. |
| errdemon | 398 | Starts the error-logging daemon. |
| errpt | 400 | Processes a report of logged errors. |
| errstop | 404 | Terminates the error-logging daemon. |
| errupdate | 405 | Updates an error report template. |
| fuser | 455 | Identifies processes using a file or file structure. |
| profiler | 775 | Profiles the operating system. |
| time | 1068 | Times the execution of a command. |
| trace | 1086 | Starts the trace function. |
| trcrpt | 1091 | Formats a report from the trace log file. |
| trcstop | 1093 | Stops the trace function. |
| trcupdate | 1094 | Updates trace format templates. |

Performing System Accounting Functions

| | | |
|------------------|-----|---|
| acct/* | 13 | Provides accounting shell procedures. |
| acctcms | 18 | Produces command usage summaries from accounting records. |
| acctcom | 20 | Displays selected process accounting record summaries. |
| acctcon | 24 | Performs connect-time accounting. |
| acctdisk, | 26 | Performs disk-usage accounting. |
| acctdusg | | |
| acctmerg | 28 | Merges total accounting files. |
| acctprc | 30 | Performs process accounting. |
| diskusg | 330 | Generates disk accounting data by user ID. |
| fwtmp | 457 | Manipulates connect accounting records. |
| runacct | 848 | Runs daily accounting. |
| sadc | 863 | Provides a system activity report package. |

Controlling System Security

The following groups of commands are important to ensure the security of the system.

Managing System Auditing

| | | |
|--------------------|----|--|
| audit | 67 | Controls system auditing. |
| auditapp | 69 | Adds an audit bin file to the end of the audit trail file. |
| auditbin | 71 | Manages bins of audit information. |
| auditpr | 73 | Displays audit trail files. |
| auditselect | 76 | Selects audit records. |
| auditstream | 78 | Creates a channel for the reading of audit records. |
| auditwrite | 80 | Generates an audit record at the command level. |

Managing the Secure System

| | | |
|---------------|-----|--|
| init | 521 | Initializes the system. |
| login | 584 | Allows you to sign on to the system and performs user identification and authentication. |
| loginx | 587 | Sets up a user's execution environment. |
| passwd | 735 | Changes login password. |
| print | 767 | Enqueues a file. |
| secure | 885 | Establishes a more secure system configuration |
| shell | 938 | Executes a shell in a user's login environment. |

| | | |
|--------------|------|---|
| sysck | 1031 | Verifies the secure system state. |
| tsh | 1100 | Interprets commands in a trusted shell. |
| tvi | 1108 | Acts as trusted editor for system administration. |
| watch | 1209 | Observes and reports security-relevant actions on the system. |

Managing the Trusted Path

| | | |
|---------------|------|--|
| actman | 32 | Permits interaction with multiple virtual terminals. |
| getty | 490 | Sets the characteristics of ports. |
| init | 521 | Initializes the system. |
| login | 584 | Allows you to sign on to the system and performs user identification and authentication. |
| loginx | 587 | Sets up a user's execution environment. |
| logout | 590 | Stops all processes on a port, returning it to a dead state. |
| shell | 938 | Executes a shell in a user's login environment. |
| tsh | 1100 | Interprets commands in a trusted shell. |
| tvi | 1108 | Acts as trusted editor for system administration |

Managing Access Permissions and Ownerships

| | | |
|---------------------------------|------|--|
| chgrp | 156 | Changes the group ownership of a file or directory. |
| chmod | 160 | Changes permission codes. |
| chown | 169 | Changes the owner of files or directories. |
| chtcb | 174 | Sets or queries the tcb attribute of a file. |
| groups | 506 | Displays your group membership. |
| id | 517 | Displays the system identity of the user issuing the command. |
| logname | 589 | Displays your login name. |
| login | 584 | Allows you to sign on to the system and performs user identification and authentication. |
| makekey | 634 | Generates an encryption key. |
| newgrp | 689 | Changes your primary group identification. |
| passwd | 735 | Changes login password. |
| pwck | 798 | Checks the password and group files for inconsistencies. |
| su | 1026 | Obtains the privileges of another user, including superuser authority. |
| umask | 1110 | Displays and sets file-creation permission code mask. |
| users, adduser | 1129 | Adds, deletes, and changes user and group information. |

Using the System

The following groups of commands help you use the various functions of the system.

Starting and Stopping the System

| | | |
|-----------------|-----|--|
| actman | 32 | Permits interaction with multiple virtual terminals. |
| login | 584 | Allows you to sign on to the system and performs user identification and authentication. |
| open | 728 | Opens a virtual terminal. |
| passwd | 735 | Changes login password. |
| shutdown | 946 | Ends system operation. |

Using Shells and Interfaces

| | | |
|---------------|------|--|
| actman | 32 | Permits interaction with multiple virtual terminals. |
| csh | 225 | Interprets commands read from a file or entered from the keyboard. |
| dos | 341 | Starts shell . |
| sh | 913 | Interprets commands read from a file or entered at the keyboard. |
| tsh | 1100 | Interprets commands in a trusted shell. |

Displaying System Statistics and Information

| | | |
|------------------|-----|---|
| date | 281 | Displays or sets the date. |
| devices | 315 | Adds, deletes, changes, and displays device information. |
| diskusg | 330 | Generates disk accounting data by user ID. |
| dsstate | 361 | Sets the state of the Distributed Services kernel logic. |
| errpt | 400 | Processes a report of logged errors. |
| errupdate | 405 | Updates an error report template. |
| file | 420 | Determines file type. |
| fptype | 444 | Displays the floating point configuration of the system. |
| fuser | 455 | Identifies processes using a file or file structure. |
| groups | 506 | Displays your group membership. |
| help | 513 | Provides information about a Source Code Control System (SCCS) message or command or about certain non-SCCS commands. |
| id | 517 | Displays the system identity of the user issuing the command. |
| ipcs | 539 | Reports interprocess communication facility status. |
| ipctable | 544 | Creates, displays, or changes the Distributed Services IPC Queues Table. |
| istat | 545 | Examines i-nodes. |

| | | |
|--|------|---|
| logname | 589 | Displays your login name. |
| man | 635 | Displays manual entries online. |
| minidisks | 650 | Adds, deletes, changes, and displays minidisks. |
| ncheck | 683 | Generates path names from i-numbers. |
| ndtable | 685 | Accesses the Distributed Services Node Table. |
| news | 691 | Writes system news items to standard output. |
| od | 723 | Writes the contents of storage to the standard output. |
| profiler | 775 | Profiles the operating system. |
| PostScript | 786 | Reports process status. |
| pstart, penable, pshare, pdelay | 791 | Enables or reports the availability of login ports. |
| pwck | 798 | Checks the password and group files for inconsistencies. |
| pwd | 800 | Displays the path name of the working directory. |
| pwtable | 801 | Accesses the Distributed Services Node Security Table. |
| rstatd | 847 | Returns NFS performance statistics from the kernel. |
| rup | 854 | Displays the host status of local machines. |
| rusers | 856 | Identifies users logged in on network hosts. |
| sact | 862 | Displays current Source Code Control System (SCCS) file editing status. |
| sadc | 863 | Provides a system activity report package. |
| sag | 865 | Displays a graph of system activity. |
| sar | 867 | Collects, reports, or saves system activity information. |
| splp | 975 | Changes or displays printer driver settings. |
| stty | 1018 | Sets, resets, or reports work station operating parameters. |
| sum | 1029 | Displays the checksum and block count of a file. |
| time | 1068 | Times the execution of a command. |
| timex | 1069 | Times a command, and reports process data and system activity. |
| tty | 1105 | Writes to standard output the full path name of your work station. |
| ugtable | 1109 | Creates, displays, and changes the Distributed Services Network Users/Groups Table. |
| uname | 1114 | Displays the name of the current operating system. |
| uustat | 1158 | Reports the status of and provides rudimentary job control for BNU commands. |
| who | 1219 | Identifies the users currently logged in. |

Controlling System Processes

| | | |
|----------------|-----|---|
| at | 63 | Runs commands at a later time. |
| cron | 220 | Runs commands automatically. |
| crontab | 222 | Submits a schedule of commands to cron . |

| | | |
|-----------------|------|--|
| errdemon | 398 | Starts the error-logging daemon. |
| errstop | 404 | Terminates the error-logging daemon. |
| kill | 552 | Sends a signal to a running process. |
| killall | 555 | Cancels all processes except the calling process. |
| nice | 699 | Runs a command at a different priority. |
| nohup | 707 | Runs a command without hangups and quits. |
| open | 728 | Opens a virtual terminal. |
| qdaemon | 802 | Schedules jobs enqueued by the print command. |
| sleep | 952 | Suspends execution for an interval. |
| syslogd | 1037 | Reads and logs messages. |
| tlog | 1071 | Stops or restarts sending of terminal I/O to a daemon. |
| tlogger | 1072 | Gathers I/O from a terminal and writes it to a log file. |
| writesrv | 1230 | Allows Distributed Services users to send messages to and receive messages from a remote system. |

Using Disks and Diskettes

| | | |
|----------------------------------|------|---|
| format | 436 | Formats diskettes. |
| mdrc | 640 | Allows you to reinstall a user-created minidisk after you have reinstalled AIX. |
| minidisks | 650 | Adds, deletes, changes, and displays minidisks. |
| mount | 669 | Makes a file system available for use. |
| umount, unmount | 1112 | Unmounts a previously mounted file system, directory, or file. |
| varyon | 1180 | Makes an external disk drive and any minidisks or file systems defined on it available for use. |
| varyoff | 1177 | Removes an external disk drive from the operating system configuration. |
| verify | 1186 | Turns write verification on or off for a particular minidisk. |

Using Tape

| | | |
|----------------|------|---|
| tapechk | 1047 | Performs consistency checking of the streaming tape device. |
| tar | 1048 | Manipulates archives. |
| tctl | 1058 | Gives commands to streaming tape. |

Working with Work Stations

| | | |
|----------------|-----|---|
| defkey | 306 | Defines keyboard key assignments. |
| display | 332 | Selects the physical display that an existing or new virtual terminal uses and sets colors and fonts. |

| | | |
|------------------|------|---|
| echo | 369 | Writes its arguments to standard output. |
| hp | 514 | Handles special functions for the HP2640- and HP2621-series terminals. |
| keyboard | 551 | Controls the delay and repetition rates of the keyboard. |
| locator | 583 | Controls the sample rate of the locator. |
| pdisable, | 741 | Kills the logger running on the specified port. |
| phold | | |
| pstart, | 791 | Enables or reports the availability of login ports. |
| penable, | | |
| pshare, | | |
| pdelay | | |
| stty | 1018 | Sets, resets, or reports work station operating parameters. |
| tabs | 1041 | Sets tab stops on work stations. |
| termdef | 1062 | Queries terminal characteristics. |
| tic | 1067 | Translates terminfo files from source to compiled format. |
| tput | 1081 | Queries the terminfo file. |
| tty | 1105 | Writes to standard output the full path name of your work station. |
| 300 | 1262 | Handles special line-motion functions for DASI 300/300s work stations. |
| 4014 | 1264 | Formats a full page 66-line screen display for a Tektronix 4014 work station. |
| 450 | 1265 | Handles special line-motion functions for the DASI 450 work station. |

Working with Files and Directories

The following groups of commands allow you to create and manipulate files and directories.

Working with Directories

| | | |
|---------------|-----|--|
| cd | 150 | Changes the current directory. |
| chroot | 172 | Changes the root directory of a command. |
| dircmp | 328 | Compares two directories and the contents of their common files. |
| dosdir | 346 | Lists the directory for DOS files. |
| find | 422 | Finds files matching expression. |
| li | 567 | Lists the contents of a directory. |
| ls | 595 | Displays the contents of a directory. |
| mkdir | 657 | Makes a directory. |
| mvdir | 682 | Moves (renames) a directory. |
| pwd | 800 | Displays the path name of the working directory. |
| rm | 833 | Removes files or directories. |
| rmdir | 838 | Removes a directory. |

Creating and Editing Files

| | | |
|--------------|------|--|
| admin | 41 | Creates and initializes SCCS files. |
| cdc | 152 | Changes the comments in a Source Code Control System (SCCS) delta. |
| ed | 371 | Edits text by line. |
| edit | 387 | Provides a simple line editor for the new user. |
| ex | 407 | Edits lines interactively, with screen display. |
| get | 477 | Creates a specified version of a Source Code Control System (SCCS) file. |
| mknod | 661 | Creates a special file. |
| sed | 887 | Provides a stream editor. |
| spell | 969 | Finds spelling errors. |
| tab | 1040 | Changes spaces into tabs or tabs into spaces. |
| uniq | 1118 | Deletes repeated lines in a file. |
| vi | 1187 | Edits files with a full screen display. |

Printing and Displaying Files

| | | |
|----------------|------|--|
| cat | 137 | Concatenates or displays files. |
| cut | 269 | Writes out selected fields from each line of a file. |
| lp | 593 | Prints a file in a format suitable for sending to a line printer. |
| nl | 701 | Numbers lines in a file. |
| od | 723 | Writes the contents of storage to the standard output. |
| pg | 744 | Formats files to the work station. |
| piobe | 753 | Writes a file to standard output in a format suitable for sending to a line printer. |
| pr | 761 | Writes a file to standard output. |
| prs | 781 | Displays a Source Code Control System (SCCS) file. |
| print | 767 | Enqueues a file. |
| qdaemon | 802 | Schedules jobs enqueued by the print command. |
| splp | 975 | Changes or displays printer driver settings. |
| tail | 1044 | Writes a file to standard output, beginning at a specified point. |
| vc | 1182 | Substitutes assigned values in place of keywords. |

Copying and Moving Files

| | | |
|----------------|-----|--|
| cat | 137 | Concatenates or displays files. |
| cp | 202 | Copies files. |
| Cvt | 274 | Moves old UUCP files into new BNU directories. |
| dd | 301 | Converts and copies a file. |
| dosread | 348 | Copies a DOS file. |

| | | |
|-----------------|------|--|
| doswrite | 350 | Copies AIX files to DOS files. |
| ln | 581 | Links files. |
| mv | 679 | Moves files. |
| uucp | 1144 | Copies files from one AIX system to another AIX system. |
| uuto | 1162 | Copies public files from one AIX system to another AIX system, with local system control of file access. |

Deleting Files

| | | |
|------------------|------|--|
| del | 308 | Deletes files if the request is confirmed. |
| dosdel | 345 | Deletes DOS files. |
| rm | 833 | Removes files or directories. |
| uniq | 1118 | Deletes repeated lines in a file. |
| uucleanup | 1141 | Deletes selected files older than a specified number of hours from the BNU spool directory or a named directory. |

Comparing Files

| | | |
|----------------|-----|---|
| bdiff | 102 | Uses diff to find differences in very large files. |
| cmp | 177 | Compares two files. |
| comm | 183 | Selects or rejects lines common to two sorted files. |
| diff | 320 | Compares text files. |
| diff3 | 323 | Compares three files. |
| diffmk | 326 | Marks differences between files. |
| dircmp | 328 | Compares two directories and the contents of their common files. |
| sdiff | 883 | Compares two files and displays the differences in a side by side format. |
| scsdiff | 874 | Compares two versions of a Source Code Control System (SCCS) file. |

Scanning Files

| | | |
|---------------|------|--|
| awk | 81 | Finds lines in files matching specified patterns and performs specified actions on them. |
| bfs | 110 | Scans files. |
| file | 420 | Determines file type. |
| find | 422 | Finds files matching expression. |
| grep | 501 | Searches a file for a pattern. |
| hyphen | 516 | Finds hyphenated words. |
| wc | 1211 | Counts the number of lines, words, and characters in a file. |
| what | 1213 | Displays identifying information in files. |

Sorting Files

| | | |
|---------------|------|--|
| lorder | 591 | Finds the best order for member files in an object library. |
| sort | 958 | Sorts or merges files. |
| tsort | 1102 | Sorts an unordered list of ordered pairs (a topological sort). |

Merging and Splitting Files

| | | |
|---------------|-----|--|
| csplit | 252 | Splits files by context. |
| join | 547 | Joins data fields of two files. |
| paste | 736 | Merges the lines of several files or subsequent lines in one file. |
| sort | 958 | Sorts or merges files. |
| split | 974 | Splits a file into pieces. |

Working with Remote Files

| | | |
|-------------------|------|---|
| biod | 114 | Starts daemons that handle NFS block I/O requests. |
| domainname | 340 | Displays or sets YP domain name. |
| makedbm | 632 | Makes a Yellow Pages dbm map. |
| mountd | 674 | Answers NFS mount requests. |
| nfsd | 696 | Starts NFS client request daemons. |
| nfsstat | 697 | Displays NFS statistics. |
| on | 726 | Executes a command remotely via NFS. |
| pcnfs | 739 | Serves PC-NFS client requests. |
| portmap | 757 | Maps RPC programs to the servicing ports on RPC servers. |
| rex | 832 | Executes remote programs. |
| rpcgen | 843 | Compiles a Remote Procedure Call program. |
| rpcinfo | 845 | Reports Remote Procedure Call status information. |
| rstatd | 847 | Returns NFS performance statistics from the kernel. |
| rup | 854 | Displays the host status of local machines. |
| rusers | 856 | Identifies users logged in on network hosts. |
| rusersd | 858 | Displays list of active NFS users. |
| rwall | 859 | Writes to all network users. |
| rwalld | 861 | NFS daemon for rwall and shutdown . |
| showmount | 945 | Displays list of remotely mounted file systems. |
| spray | 981 | Sprays packets to host when NFS is installed. |
| sprayd | 983 | Receives packets sent by the spray command. |
| ypbind | 1239 | Allows Yellow Pages client processes to communicate with the YP server. |
| ypcat | 1241 | Displays values in a Yellow Pages data base. |
| ypinit | 1243 | Builds and installs the Yellow Pages data base. |

| | | |
|-----------------|------|---|
| ypmatch | 1245 | Displays the values of one or more keys from a Yellow Pages map. |
| yppasswd | 1247 | Changes Yellow Pages passwords |
| yppasswd | 1249 | Handles Yellow Pages password change requests |
| yppoll | 1251 | Displays the version of a Yellow Pages map located at a Yellow Pages host. |
| yppush | 1252 | yppush . |
| ypserv | 1256 | Looks up information in a local Yellow Pages data base. |
| ypset | 1254 | Directs the ypbind daemon to a particular server. |
| ypwhich | 1258 | Displays the name of the host machine acting as the Yellow Pages server or as a map YP master server. |
| ypxfr | 1260 | Transfers a Yellow Pages map to the local host machine. |

Formatting Text

| | | |
|---------------------|------|---|
| col | 179 | Processes text having reverse linefeeds and forward/reverse half-linefeeds for output to standard output. |
| cw | 275 | Prepares constant-width text for troff . |
| deroff | 313 | Removes nroff , troff , tbl , and eqn constructs from files. |
| eqn | 395 | Formats mathematical text for the nroff , troff and troff commands. |
| fmt | 428 | Formats mail messages prior to sending. |
| greek | 499 | Converts output for a Teletype Model 37 work station to output for other work stations. |
| hp | 514 | Handles special functions for the HP2640- and HP2621-series terminals. |
| mm | 663 | Displays or checks documents formatted with Memorandum Macros. |
| mmt | 666 | Typesets documents, manual pages, view graphs, and slides. |
| newform | 686 | Changes the format of a text file. |
| nl | 701 | Numbers lines in a file. |
| nroff, troff | 709 | Formats text for printing devices. |
| ptx | 794 | Generates a permuted index. |
| tbl | 1053 | Formats tables for the nroff , troff and troff commands. |
| tc | 1056 | Simulates phototypesetter output for a Tektronix 4014 work station. |
| vrml2rtfont | 1205 | Converts a standard AIX font file to RT rtx font format. |
| 300 | 1262 | Handles special line-motion functions for DASI 300/300s work stations. |
| 4014 | 1264 | Formats a full page 66-line screen display for a Tektronix 4014 work station. |
| 450 | 1265 | Handles special line-motion functions for the DASI 450 work station. |

Working with Graphics

| | | |
|-------------|-----|---|
| gdev | 460 | Provides graphical device routines and filters. |
| ged | 463 | Displays, makes, and edits graphical files on Tektronix 4010 terminals. |
| gend | 475 | Provides a general graphics device backend. |

| | | |
|-----------------|------|---|
| graph | 494 | Draws a graph. |
| graphics | 497 | Accesses graphical and numerical commands. |
| gutil | 508 | Provides graphical utility programs. |
| spline | 972 | Interpolates smooth curve. |
| stat | 984 | Provides tools for analyzing numerical data. |
| toc | 1074 | Provides graphical table of contents routines. |
| tplot | 1079 | Produces plotting instructions for a particular work station. |

Protecting Files with File Permissions

| | | |
|---------------|------|---|
| chgrp | 156 | Changes the group ownership of a file or directory. |
| chmod | 160 | Changes permission codes. |
| chown | 169 | Changes the owner of files or directories. |
| groups | 506 | Displays your group membership. |
| li | 567 | Lists the contents of a directory. |
| ls | 595 | Displays the contents of a directory. |
| umask | 1110 | Displays and sets file-creation permission code mask. |

Backing Up and Restoring Files

| | | |
|----------------|------|---|
| ar | 55 | Maintains portable libraries used by the linkage editor. |
| backup | 88 | Backs up files. |
| cpio | 205 | Copies files into and out of archive storage and directories. |
| lorder | 591 | Finds the best order for member files in an object library. |
| pack | 730 | Compresses files. |
| restore | 826 | Copies back files created by the backup command. |
| shlib | 939 | Creates a shared library. |
| tar | 1048 | Manipulates archives. |

Working with Data

The following groups of commands allow you to use various data tools.

Using Data Tools

| | | |
|-----------------|-----|---|
| banner | 94 | Writes character strings in large letters to standard output. |
| cal | 132 | Displays a calendar. |
| calendar | 134 | Writes reminder messages to standard output. |
| ctab | 257 | Produces a collating table. |

| | | |
|--------------|------|---|
| echo | 369 | Writes its arguments to standard output. |
| tr | 1083 | Translates characters. |
| units | 1119 | Converts units in one measure to equivalent units in another measure. |

Performing Calculator Functions

| | | |
|---------------|-----|---|
| bc | 97 | Provides an interpreter for arbitrary-precision arithmetic language. |
| dc | 295 | Provides an interactive desk calculator for doing arbitrary-precision integer arithmetic. |
| factor | 416 | Factors a number. |

Communicating on the System

The following groups of commands allow you to use mail and message facilities on the system.

Sending Messages and Notices

| | | |
|---------------|------|--|
| confer | 189 | Provides an online conferencing system. |
| mesg | 642 | Permits or refuses write messages. |
| news | 691 | Writes system news items to standard output. |
| wall | 1208 | Writes a message to all logged-in users. |
| write | 1225 | Sends messages to other users on the system. |

Using Mailboxes

| | | |
|-------------------|-----|---|
| bellmail | 104 | Sends messages to system users and displays messages from system users. |
| fmt | 428 | Formats mail messages prior to sending. |
| mail, Mail | 608 | Sends and receives mail. |
| mailstats | 623 | Displays statistics regarding mail traffic. |
| sendmail | 897 | Routes mail for local or network delivery. |

Using the MH (Message Handling) Package

| | | |
|--------------|-----|---|
| ali | 48 | Lists mail aliases and their addresses. |
| anno | 50 | Annotates messages. |
| ap | 53 | Parses and reformats addresses. |
| burst | 129 | Explodes digests into messages. |
| comp | 185 | Composes a message. |

| | | |
|-------------------|------|---|
| conflict | 196 | Searches for alias and password conflicts. |
| dist | 336 | Redistributes a message to additional addresses. |
| dp | 352 | Parses and reformats dates. |
| folder | 429 | Selects and lists folders and messages. |
| folders | 433 | Lists folders and messages. |
| forw | 438 | Forwards messages. |
| inc | 518 | Incorporates new mail. |
| install-mh | 527 | Initializes the MH environment. |
| mark | 637 | Creates, modifies, and displays message sequences. |
| mhl | 643 | Produces formatted listings of messages. |
| mhmail | 646 | Sends or receives mail. |
| mhpath | 648 | Prints full path names of messages and folders. |
| msgchk | 675 | Checks for messages. |
| msh | 677 | Creates an MH shell. |
| next | 694 | Shows the next message. |
| packf | 733 | Compresses the contents of a folder into a file. |
| pick | 748 | Selects messages by content, and creates and modifies sequences. |
| post | 758 | Delivers a message. |
| prev | 765 | Shows the previous message. |
| prompter | 778 | Invokes a prompting editor. |
| rcvdist | 808 | Sends a copy of incoming messages to additional recipients. |
| rcvpack | 810 | Saves incoming messages in a packed file. |
| rcvstore | 812 | Incorporates new mail from standard input into a folder. |
| rcvttty | 815 | Notifies the user of incoming messages. |
| refile | 817 | Files messages in other folders. |
| repl | 821 | Replies to a message. |
| rmf | 839 | Removes a folder. |
| rmm | 841 | Removes messages. |
| scan | 871 | Produces a one line per message scan listing. |
| send | 893 | Sends a message. |
| show | 942 | Shows messages. |
| slocal | 954 | Processes incoming mail. |
| sortm | 965 | Sorts messages. |
| spost | 978 | Delivers a message. |
| vmh | 1203 | Invokes a visual interface for use with MH commands. |
| whatnow | 1215 | Invokes a prompting interface for draft disposition. |
| whom | 1222 | Lists the addresses of the proposed recipients of a message and verifies the addresses. |

Communicating with Other Systems

| | | |
|---|------|--|
| connect | 198 | Establishes a connection to a remote system. |
| ct | 254 | Dials an attached terminal and issues a login process. |
| cu | 263 | Connects directly or indirectly to another UNIX system. |
| Cvt | 274 | Moves old UUCP files into new BNU directories. |
| sum | 1029 | Displays the checksum and block count of a file. |
| uucheck | 1137 | Checks for files and directories required by BNU. |
| uuchek | 1137 | Checks for files and directories required by BNU. |
| uucico | 1139 | File transport program for the BNU facility. |
| uucleanup | 1141 | Deletes selected files older than a specified number of hours from the BNU spool directory or a named directory. |
| uucp | 1144 | Copies files from one AIX system to another AIX system. |
| uulog | 1149 | Provides information about uucp and uux activities on a system. |
| uuname | 1151 | Provides information about other systems accessible to the local system. |
| uucpadm | 1133 | Enters basic uucp configuration information. |
| uusched | 1156 | Schedules work for the BNU file transport program. |
| uustat | 1158 | Reports the status of and provides rudimentary job control for BNU commands. |
| uuto | 1162 | Copies public files from one AIX system to another AIX system, with local system control of file access. |
| uutry, Uutry, uukick | 1164 | Contacts a remote system with debugging turned on. |
| uux | 1166 | Runs a command on another AIX system. |
| uuxqt | 1172 | Executes remote command requests. |

Developing Programs

The following groups of commands are for use in programming.

Programming in Assembler

| | | |
|------------|-----|--|
| as | 61 | Assembles a source file. |
| sdb | 875 | Provides a symbolic debugger for C and assembler programs. |

Programming in C

| | | |
|-----------|------|---|
| cb | 139. | Puts C source code into a form that is easily read. |
|-----------|------|---|

| | | |
|---------------|------|--|
| cc | 140 | Compiles C programs. |
| cflow | 154 | Generates a C flow graph of external references. |
| cpp | 210 | Performs file inclusion and macro substitution on C Language source files. |
| cxref | 279 | Creates a C program cross-reference listing. |
| factor | 416 | Factors a number. |
| ipcrm | 537 | Removes message queue, semaphore set or shared memory identifiers. |
| m4 | 603 | Preprocesses files, expanding macro definitions. |
| lex | 562 | Generates a C Language program that matches patterns for simple lexical analysis of an input stream. |
| lint | 577 | Checks C programs for potential problems. |
| regcmp | 820 | Compiles patterns. |
| sdb | 875 | Provides a symbolic debugger for C and assembler programs. |
| tic | 1067 | Translates terminfo files from source to compiled format. |
| yacc | 1237 | Generates a LR(1) parsing program from input consisting of a context-free grammar specification. |

Programming in Miscellaneous Languages

| | | |
|--------------|-----|--|
| bc | 97 | Provides an interpreter for arbitrary-precision arithmetic language. |
| bs | 118 | Compiles and interprets modest-sized programs. |
| ctags | 261 | Makes a file of tags to help locate objects in source files. |
| m4 | 603 | Preprocesses files, expanding macro definitions. |
| sno | 956 | Provides a SNOBOL interpreter. |

Programming in Shell

| | | |
|-----------------|-----|--|
| basename | 95 | Returns the base name of a string parameter. |
| cron | 220 | Runs commands automatically. |
| crontab | 222 | Submits a schedule of commands to cron . |
| cs | 225 | Interprets commands read from a file or entered from the keyboard. |
| echo | 369 | Writes its arguments to standard output. |
| env | 393 | Sets the environment for execution of a command. |
| expr | 412 | Evaluates arguments as expressions. |
| find | 422 | Finds files matching expression. |
| getopt | 485 | Parses command line flags and parameters. |
| line | 574 | Reads one line from the standard input. |
| nice | 699 | Runs a command at a different priority. |
| nohup | 707 | Runs a command without hangups and quits. |
| open | 728 | Opens a virtual terminal. |
| sh | 913 | Interprets commands read from a file or entered at the keyboard. |

| | | |
|--------------|------|---|
| sleep | 952 | Suspends execution for an interval. |
| tee | 1060 | Displays the output of a program and copies it into a file. |
| test | 1064 | Evaluates conditional expressions. |
| time | 1068 | Times the execution of a command. |
| true | 1099 | Returns an exit value of zero. |
| xargs | 1232 | Constructs argument lists and runs commands. |

Working with Messages

| | | |
|------------------|-----|--|
| dspcat | 357 | Displays all or part of a message catalog. |
| dspmsg | 359 | Displays a selected message from a message catalog. |
| gencat | 470 | Creates and modifies a message catalog. |
| gettext | 488 | Extracts message/insert/help descriptions. |
| mkcatdefs | 651 | Preprocesses a message source file. |
| puttext | 796 | Updates an output file that contains message/insert/help descriptions. |
| runcat | 852 | Pipes data from mkcatdefs to runcat . |

Debugging Programs

| | | |
|----------------|------|--|
| crash | 215 | Examines system images. |
| dbx | 284 | Provides a tool to debug and run programs under AIX. |
| dump | 366 | Dumps selected parts of an object file. |
| dumpfmt | 368 | Formats the VRM dump file. |
| od | 723 | Writes the contents of storage to the standard output. |
| prof | 773 | Displays program profile data. |
| adb | 33 | Provides a general purpose debugger. |
| sdb | 875 | Provides a symbolic debugger for C and assembler programs. |
| time | 1068 | Times the execution of a command. |
| timex | 1069 | Times a command, and reports process data and system activity. |
| xdbx | 1236 | Provides an overlaying X-Window application for the dbx symbolic debugger. |

Managing Source Programs Using the Source Code Control System (SCCS)

| | | |
|--------------|-----|---|
| admin | 41 | Creates and initializes SCCS files. |
| cdc | 152 | Changes the comments in a Source Code Control System (SCCS) delta. |
| comb | 181 | Combines SCCS deltas. |
| delta | 310 | Creates a delta in a Source Code Control System file. |
| get | 477 | Creates a specified version of a Source Code Control System (SCCS) file. |
| help | 513 | Provides information about a Source Code Control System (SCCS) message or command or about certain non-SCCS commands. |

| | | |
|-----------------|------|---|
| prs | 781 | Displays a Source Code Control System (SCCS) file. |
| rmdel | 837 | Removes a delta from a Source Code Control System (SCCS) file. |
| sact | 862 | Displays current Source Code Control System (SCCS) file editing status. |
| sccsdiff | 874 | Compares two versions of a Source Code Control System (SCCS) file. |
| unget | 1116 | Cancels a previous get command. |
| val | 1175 | Validates Source Code Control System (SCCS) files. |
| what | 1213 | Displays identifying information in files. |

Managing Object Files

| | | |
|---------------|------|---|
| ar | 55 | Maintains portable libraries used by the linkage editor. |
| as | 61 | Assembles a source file. |
| dump | 366 | Dumps selected parts of an object file. |
| ld | 557 | Links object files. |
| lorder | 591 | Finds the best order for member files in an object library. |
| make | 625 | Maintains up-to-date versions of programs. |
| nm | 705 | Displays the symbol table of an object file. |
| prof | 773 | Displays program profile data. |
| size | 949 | Displays the section sizes of common object files. |
| strip | 1017 | Removes symbol and line number information from a common object file. |
| touch | 1077 | Updates the access and modification times of a file. |
| tsort | 1102 | Sorts an unordered list of ordered pairs (a topological sort). |

Playing Games

The following groups of commands allow you to play games on the system.

| | | |
|-------------------|------|--|
| arithmetic | 59 | Tests arithmetic skills. |
| back | 87 | Plays backgammon. |
| bj | 117 | Plays blackjack. |
| craps | 214 | Plays craps. |
| fish | 427 | Plays the card game Go Fish. |
| fortune | 437 | Tells a fortune. |
| hangman | 512 | Plays hangman, the word-guessing game. |
| moo | 668 | Plays a number-guessing game. |
| number | 721 | Displays the written form of a number. |
| quiz | 803 | Tests your knowledge. |
| ttt | 1104 | Plays tic-tac-toe. |
| turnon | 1107 | Turns on execute permission for games. |
| wump | 1231 | Plays the game Hunt the Wumpus. |